

ABSTRACT

In a combined cycle gasification plant, high pressure fuel gas from the gasification unit is heated prior to combustion, and is then used to dry the feedstock. The moist fuel gas from the drying operation is combusted to drive the turbine. Alternatively, high-pressure inert gas such as nitrogen is heated in the gasification unit and is then used to dry the coal feed. Some of the moist inert gas is recycled, and some if it is passed to the combustion turbine.